

Sustainable Seas Expeditions/Nuytco Research

“Check Out” Dive

Objective: To ensure DeepWorker pilots are familiar with ship based launch and recovery procedures and submersible operating systems before conducting additional dives.

1. Complete pre-dive checklist procedure up to final checks (including turn on sonar and align compass)
 2. Safety meeting/launch and recovery briefing including plan for unknown conditions
 3. Complete final checks
 4. Complete launch procedure
 5. Stabilize sub on surface
 6. Complete life support checks and report every fifteen minutes thereafter
 7. Receive permission to dive
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8. Upon leaving surface switch to and test through water comms
 9. Descend to bottom observing proper descent procedure
 10. Set neutral buoyancy, adjust if necessary
 11. Park DeepWorker on bottom
 12. Using touch screen turn off/on lights and set as required
 13. Test camera systems. Does screen view equal your observations? Experiment with pan and tilt.
 14. Observe sonar. Does screen image match visual observations? Record.
 15. Observe compass. With approval from topside, begin moving on an agreed upon heading. Check with surface to determine if the tracking of the vessel coincides with compass heading.
 16. With approval from topside, initiate reciprocal course heading. Check with surface to determine if the tracking of the vessel coincides with compass heading.
 17. Radio surface to initiate sonar exercise. Conduct sonar exercise by moving the sub while reading and recording the sonar. Does screen image match visual observations?
 18. Radio surface to conclude sonar exercise.
 19. Request permission to ascend.
 20. Prepare for ascent.
 21. Ascend toward surface using proper ascent procedure including 100'/min max
 22. Stop sub at determined depth and hold.
 23. Confirm with surface then proceed to surface
 24. Switch to VHF comms
 25. Complete recovery procedure assigning utmost importance to swimmer safety
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Navigational/Auxiliary Systems used: Sonar, Compass, Video, Still camera pan & tilt, Lights, Strobes

Maximum Depth: 30-60 feet